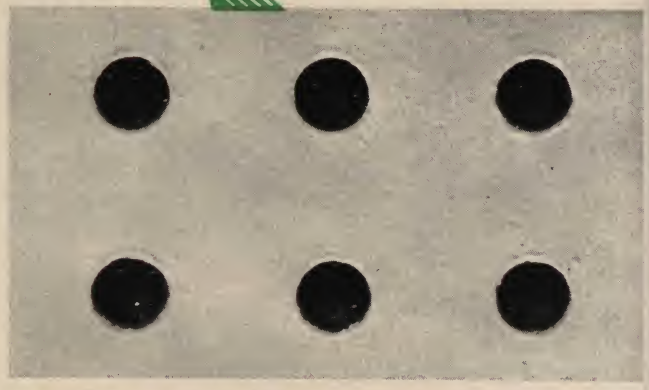

Simpson
QUALITY SINCE 1895
ACOUSTICAL
TILE
WITH EXCLUSIVE
HOLLOKORE
DRILLED PERFORATIONS
FOR NOISE QUIETING AND
ACOUSTICAL CORRECTION
More Beautiful - Greater Efficiency

Simpson
QUALITY SINCE 1895

WITH EXCLUSIVE SIMPSON HOLLO

THIS superior product, developed in the Simpson Research Laboratories, offers features never before obtainable in a perforated fiber acoustical tile. Its clean, drilled perforations, deluxe finish on surface and bevels, and higher sound absorption make Simpson Acoustical Tile ideal for noise-quieting and acoustical correction.

Simpson Acoustical Tile is made from the long strong fibers of the matchless Douglas fir. It is made in a new plant using newly developed processes designed to insure quality and a high degree of uniformity.



Enlarged and unretouched photograph of a portion of the surface of Simpson Acoustical Tile showing the round, clean, HOLLOKORE drilled perforations.

HIGHER SOUND ABSORPTION

Simpson Acoustical Tile has the highest noise reduction coefficients of all drilled fiber acoustical materials in the most widely used thicknesses and types of mountings, according to tests accepted by the Acoustical Materials Association. For example, one-half inch Type S-1 Simpson Acoustical Tile cemented to solid backing, or on furring strips, has the highest average sound absorption values (noise reduction coefficients) of any perforated material on the market in the same thickness.

EXCLUSIVE HOLLOKORE DRILLING PROCESS

Only Simpson Acoustical Tile has the new and exclusive HOLLOKORE drilled perforations—the greatest advance in perforated fiber acoustical material in many years. The HOLLOKORE drilled perforations do a better job of soaking up noise . . . do a more permanent job because of greater paintability without affecting acoustical efficiency. Holes which are punched or made with a twist drill have ragged edges which result in a tendency to bridge over when repainted. By the exclusive HOLLOKORE process the drilled perforations in Simpson Acoustical Tile are uniformly round, with clean, smooth edges. There is nothing to encourage unsightly bridging of the paint when redecorating. Because of the HOLLOKORE drilled perforations, Simpson Acoustical Tile can be painted repeatedly without impairing its acoustical efficiency.

THICKNESSES AND FINISH

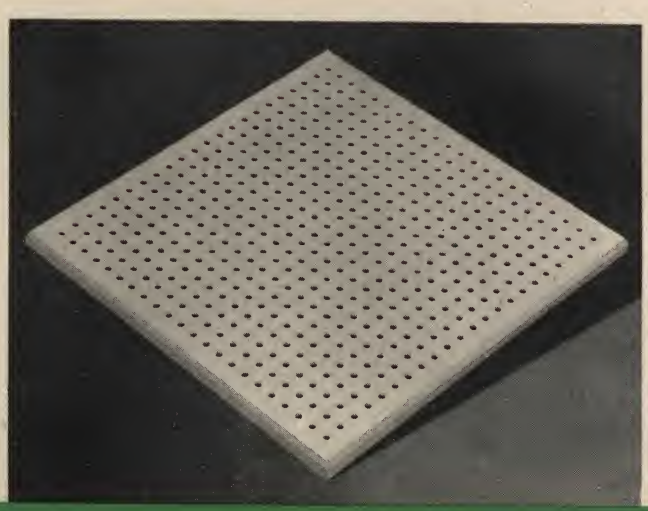
Simpson Acoustical Tile is made in thicknesses of ½", ⅝" and 1". Each square foot has 484 perforations, $\frac{3}{16}$" in diameter, extending to ⅛" of the back surface. Bevels are finished in the same attractive white as the surface, giving a more finished and pleasing appearance to the completed installations. The special factory finish has high light reflection, without glare.

LOW MAINTENANCE COST

The initial cost of Simpson Acoustical Tile is lower than that of similar materials with comparable sound absorption. Maintenance costs are also lower because of the clean, HOLLOKORE drilled perforations, and superior surface finish. It is easy to clean and can be painted repeatedly.

SPECIFY A MINIMUM OF 60% SOUND ABSORPTION

Now, for the first time, a minimum noise reduction coefficient of .60 can be specified *without increasing costs.* Experience has demonstrated, and scientific analyses confirm, that a material having a noise reduction coefficient of .60 is the minimum ceiling treatment necessary to quiet effectively the average office, restaurant, bank, schoolroom, corridor or similar room of normal dimensions. One-half inch Simpson Acoustical Tile installed on a solid backing provides a noise reduction coefficient of .60 (.65 on furring strips). *No other perforated material of the same thickness has these high values.* And, of course, one-half inch material is lower in cost than thicker materials. So, alert architects are now specifying Simpson Acoustical Tile with a minimum noise reduction coefficient of .60 to save money for their clients *without sacrificing performance.*



SIMPSON LOGGING COMPANY

ACOUSTICAL TILE

TERMITE, MOLD PROTECTED

decay termite Protected WITH PENTACHLOROPHENOL

Simpson Acoustical Tile is treated with Pentachlorophenol, a modern preservative which gives extra tested-protection against mold and mildew in addition to termites, decay and dry rot.

INSULATING VALUE

The long, strong Douglas fir fibers, from which this improved acoustical tile is made, result in a material having low heat conductivity which means better insulating qualities—and lower fuel bills.

WIDE VARIETY OF USES

Architects are finding that Simpson Acoustical Tile offers exceptional advantages for effective noise-quieting and acoustical correction in a wide variety of rooms, such as offices, clubs, schools, auditoriums, stores, hospitals, factories, churches, theatres, banks, recreation rooms, dens and many others.

ACOUSTICAL FIELD SERVICE

Simpson provides an acoustical field service headed by one of the country's outstanding acoustical engineers. His wide experience in sound research and practical experience in architectural acoustics is made available without charge to architects and Simpson Acoustical Contractors.

A FOREST CONSERVATION PRODUCT

Simpson Acoustical Tile is manufactured in a large, modern plant at Shelton, Washington. Under the Simpson sustained yield program no extra trees are cut to produce this and the other Simpson Woodfiber products.

Short Form Specifications

(Noise-Quieting Installation)

1. ACOUSTICAL MATERIAL. The ceiling and/or wall surfaces as indicated in the Schedule of Finishes or as noted below shall be covered with an acoustical tile having 484 clean-drilled perforations per square foot. The material shall be factory finished on both surface and bevels and its light reflection value shall not be less than .77. It shall be treated at the factory with pentachlorophenol to insure against attack by termites, fungus growth, dry rot and mildew.

   When material is to be cemented to solid backing, use Paragraphs 2 and 3 immediately below. When installation is to be on furring strips, use alternate Paragraphs 2 and 3.

2. NOISE REDUCTION COEFFICIENT. The acoustical tile shall have a minimum noise reduction coefficient on No. 1 mounting of..... [insert desired coefficient: .60 (½"), .65 (⅝"), .75 (1")] as determined by tests accepted by the Acoustical Materials Association.

3. INSTALLATION. Installation shall be by qualified mechanics under the direct supervision of the manufacturer's authorized representative. The acoustical material shall be installed by cementing to a rodded brown coat of plaster [or plasterboard, or concrete] provided in place by others. The adhesive used and the workmanship shall be strictly in accordance with the recommendations of the acoustical tile manufacturer and the completed installation shall be guaranteed free from defects of material or workmanship for a period of one year from date of acceptance.

   (Alternate 2.) NOISE REDUCTION COEFFICIENT. The acoustical tile shall have a minimum noise reduction coefficient on No. 2 mounting of.....[insert desired coefficient: .65 (½"), .70 (⅝"), .75 (1")] as determined by tests accepted by the Acoustical Materials Association.

   (Alternate 3.) INSTALLATION. Installation shall be made by qualified mechanics under the direct supervision of the manufacturer's authorized representative. 1"x3" [or 1"x4"] wood furring strips shall be installed 12" o.c. The strips shall be accurately leveled and securely nailed in place. The acoustical tile shall be secured to the furring strips by not less than four nails per square foot

Following are the Sound Absorption Coefficients and Other Data on SIMPSON ACOUSTICAL TILE Accepted by the Acoustical Materials Association.

	Thickness	Mounting*	Coefficients						Noise Red. Coef.**	Unit Size Tested	Light Reflection		Wt. Lbs. Per Sq. Ft.	Surface
			128	256	512	1024	2048	4096			Color	Value		
Type S-1	½"	1	.09	.16	.67	.84	.76	.72	.60	12"x12"	W	.77	.60	Perforated 484 holes per sq. ft.; perforations 3/16" in diameter, ½" o.c. Finished two coats face and bevels.
Type S-1	½"	2	.07	.37	.71	.75	.77	.69	.65	12"x12"	W	.77	.60	
Type S-2	⅝"	1	.06	.18	.74	.90	.78	.70	.65	12"x12"	W	.77	.80	
Type S-2	⅝"	2	.14	.50	.70	.83	.78	.71	.70	12"x12"	W	.77	.80	
Type S-5	1"	1	.12	.31	.98	.94	.70	.64	.75	12"x12"	W	.77	1.10	
Type S-5	1"	2	.22	.51	.89	.98	.71	.66	.75	12"x12"	W	.77	1.10	

*Mountings: No. 1 cemented to plasterboard. Considered equivalent to cementing to plaster or concrete ceiling. No. 2 nailed to 1"x2" wood furring 12" o.c.

**The noise reduction coefficient is the average of the coefficients at frequencies from 256 to 2048 cycles inclusive, given to the nearest 5%. This average coefficient is recommended for use in comparing materials to be applied in offices, hospitals, banks, corridors, etc.

PRODUCTS OF SIMPSON RESEARCH

Simpson QUALITY SINCE 1895 ACOUSTICAL TILE

and the heads shall be concealed in the corner holes of the acoustical tile. The type of nails used and the workmanship shall be strictly in accordance with the recommendations of the acoustical tile manufacturer and the completed installation shall be guaranteed free from defects of material or workmanship for a period of one year from date of acceptance.

4. PATTERN. The acoustical tile shall be laid in a pattern as indicated on the drawings. All lines shall be straight and true and work shall be started at the center of each room or panel. Borders shall never be less than 6 inches wide. The edges of the panels shall be neatly finished with a moulding of the same material as the acoustical tile.

(Auditorium Correction Installation)

The specification for this type of installation is identical with the above specification for a noise-quieting installation except for Paragraph 2 which should read as follows:

[WHEN MATERIAL Is To BE CEMENTED TO A SOLID BACKING]

2. SOUND ABSORPTION VALUES. The acoustical tile shall have a minimum sound absorption coefficient at 512 cycles per second of_____ [insert desired coefficient: .67 (½"), .74 (⅝"), .98 (1")] and a minimum average value (noise reduction coefficient) of_____ [insert desired coefficient: .60 (½"), .65 (⅝"), .75 (1")]. All values shall be as determined by tests accepted by the Acoustical Materials Association for the material installed on a No. 1 mounting.

[WHEN MATERIAL Is To BE INSTALLED ON FURRING STRIPS]

(Alternate 2.) SOUND ABSORPTION VALUES. The acoustical tile shall have a minimum sound absorption coefficient at 512 cycles per second of_____ [insert desired coefficient: .71 (½"), .70 (⅝"), .89 (1")] and a minimum average value (noise reduction coefficient) of_____ [insert desired coefficient: .65 (½"), .70 (⅝"), .75 (1")]. All values shall be as determined by tests accepted by the Acoustical Materials Association for the material installed on a No. 2 mounting.

Simpson Acoustical Tile on ceiling of Library, Beverly Vista School, Beverly Hills, California.

Simpson Acoustical Tile on walls of Center Theater, Extension Center, University of Washington, Seattle, Washington.

WOODFIBER DIVISION • SIMPSON LOGGING COMPANY

Plant at Shelton, Washington

SALES DIVISION: 1010 White Bldg., Seattle 1, Washington

For More Information See Your Nearest Simpson Acoustical Contractor.

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Builders Exchange Bldg.
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Portland 4, Oregon

ANGELES INDUSTRIES
984 McGarry St.
Phone: Trinity 8121
Los Angeles, California

ASBESTOS PRODUCTS CO.
1780 Kettner Blvd.
Phone: Franklin 7665
San Diego, Calif.

M. H. BALDWIN
2804 East Hawthorne
Phone: 2804-J
Tucson, Arizona

COAST INSULATING PRODUCTS
634 South Western Ave.
Phone: Fitzroy 1118
Los Angeles 5, Calif.

CONSOLIDATED ROOFING & SUPPLY CO.
520 S. 7th Ave.
Phone: 47888
Phoenix, Arizona

CONTINENTAL LUMBER CO.
P. O. Box 2042
Phone: 450
Boise, Idaho

CRAIG & PULLEN
338 Ward St.
Phone: 6107
Honolulu, T. H.

CRAMER COMPANY
345 Vermont St.
Phone: Market 1-0411
San Francisco, Calif.

CRAMER COMPANY
1933 Merced St.
Phone: 3-1131
Fresno, Calif.

CRAMER COMPANY
1224 I Street
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Sacramento, Calif.

DALE TILE CO.
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Phone: Br. 8831
Minneapolis 2, Minn.

ELLIOTT BAY LUMBER CO.
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Salt Lake City 14, Utah

WARREN SALES CO.
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Phone: 3-8975
Phoenix, Arizona

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